

**IN THE CLAIMS**

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1. (currently amended) A method of monitoring one or more parameters of a sample gas or vapour comprising the steps of

measuring the humidity of the sample gas or vapour,

providing a source of humidified air,

providing a sensor chamber containing one or more sensors,

introducing into the sensor chamber humidified air from the said source, and

adjusting the humidity of the humidified air in the sensor chamber to be substantially the same as the measured humidity of the sample gas or vapour,

isolating the sensor chamber from the said source,

admitting into the sensor chamber the sample gas or vapour, and

monitoring the output of the sensors.

2. (original) A method as claimed in Claim 1 including measuring the humidity of the sample when enclosed in a sample chamber.

3. (previously amended) A method as claimed in Claim 1 further comprising providing a source of gas or air at a selected humidity level and passing a flow of the said gas or air through the sensor chamber.

4. (original) A method according to Claim 3 in which the step of providing a supply of humidified air in the sensor chamber comprises generating a stream of humidified air from apparatus including a first humidity sensor for sensing the humidity

of the air generated, and control means operable to vary the humidity of the generated air supply and to adjust the humidity of the output air supply to be substantially equal to a predetermined humidity level entered into the control means.

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5. (previously amended) A method according to Claim 3 in which the step of adjusting the humidity in the sensor chamber includes measuring the humidity in the sensor chamber by a second humidity sensor, and varying the humidity of the said supply of humidified air until the humidity levels measured on the first and second humidity sensors are substantially the same as the said measured humidity of the sensor chamber.

6. (currently amended) A method according to Claim 1 in which the step of measuring the humidity of the sample gas or vapour in the sample chamber is carried out by use of a ~~third~~ sample chamber humidity sensor mounted for measuring the humidity in the sample chamber.

7. (previously amended) A method according to Claim 1 wherein at least one of the said sensors is an olfactory sensor.

8. (currently amended) Apparatus for monitoring one or more olfactory parameters of the sample gas or vapour comprising  
a measuring device for measuring the humidity of the sample gas or vapour,  
a humidified air source

a device for passing humidified air from the said source through a sensor chamber containing one or more sensors, such that the humidity of the humidified air in the sensor chamber is adjusted to be substantially the same as the measured humidity of the sample gas or vapour,

a valve arrangement for isolating the sensor chamber from the humidified air source and for admitting into the sensor chamber the sample gas or vapour for monitoring one or more components or parameters by the sensor or sensors.

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und  
9. (original) Apparatus as claimed in Claim 8 including a sample chamber for enclosing the sample gas or vapour.

10. (previously amended) Apparatus as claimed in Claim 8 further comprising a source of gas or air at a selected humidity level and a device for passing a flow of the said gas or air through the sensor chamber.

11. (previously amended) Apparatus as claimed in Claim 1 wherein the sensor or sensors comprise at least one olfactory sensor.

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12-26. (cancelled).